

APPLICATION NO.

09/753,399

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DENNISON, SCHULTZ, DOUGHERTY & MACDONALD 1727 KING STREET SUITE 105
ALEXANDRIA, VA 22314

FILING DATE

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WONG, BLANCHE

ART UNIT PAPER NUMBER

EXAMINER

DATE MAILED: 11/17/2005

2667

Please find below and/or attached an Office communication concerning this application or proceeding.

FIRST NAMED INVENTOR

Michael Mesh

	(x		
	Application No.	Applicant(s)	
Office Action Summary	09/753,399	MESH ET AL.	
	Examiner	Art Unit	
	Blanche Wong	2667	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wit	h the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of a Failure to reply within the set or extended period for reply will, by statute the Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re will apply and will expire SIX (6) MONT c, cause the application to become ABA	CATION. Sply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on <u>12 August 2005</u> .			
2a) This action is FINAL. 2b) ☐ This	☑ This action is FINAL. 2b) ☑ This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4) Claim(s) 1-3,5,8-12,14-25,27 and 29-32 is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-3,10,15-21,23-25,27,29,30 and 32</u> is/are rejected.			
7)⊠ Claim(s) <u>5,8,9,11,12,14,22,31</u> is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement.			
are subject to restriction and/o	rection requirement.		
Application Papers			
9) The specification is objected to by the Examine			
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
	tammer. Note the attached	office Action of John 1 10 102.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) All b) Some * c) None of:			
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 			
3. Copies of the certified copies of the priority documents have been received in Application 100.			
application from the International Bureau (PCT Rule 17.2(a)).			
* See the attached detailed Office action for a list of the certified copies not received.			
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 		s)/Mail Date nformal Patent Application (PTO-152)	
, opo,			

DETAILED ACTION

Response to Arguments

- 1. The 35 U.S.C. 112, first paragraph, rejection has been withdrawn.
- 2. Examiner acknowledges that co-pending application 09/753,513 claims a system, whereas the present application claims a method. However, due to similar scope and functions, the potential of obviousness-type double patenting raises ground for nonstatutory double patenting.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the interface transceiver and the service card (both in cl. 29) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Claim Objections

4. Claims 5,17,30 are objected to because of the following informalities:

Examiner suggests replacing – the PoS frame – with "said PoS frame" in cl. 5, ln.

9, in consistent with "said PoS frame" in cl. 8, In. 2.

Examiner suggests replacing – the sorted data – with "the sorted services data" in cl. 30, ln. 4, in consistent with "sorted services data" in cl. 2, ln. 7.

Examiner suggests replacing – data of each type of to its original bit stream – in cl. 16-17, ln. 7, with "data of each type of its original bit stream" or "data of each type to its original bit stream".

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Appropriate correction is required.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 2-3,10,15-21,23-25,27,29,30,32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With regard to cl. 2, it is unclear whether – one of said aggregator modules – in In. 4, is the same as "at least one aggregator module" in cl. 1, In. 13; and whether – a service collection unit – in In. 11-12 and – said service collection unit – in In. 13-14, is the same as "at least one service collection unit" in cl. 1, In. 3.

With regard to cl. 10, it is unclear whether – said optical transceivers of said service collection units – in ln. 4-5, means "said optical transceivers of said at least one service collection unit" because in cl. 5, ln. 10, there is -- the optical transceiver of one of said at least one service collection unit -- and in cl. 1, ln. 5-7, there is -- each said at least one service collection unit including an optical transceiver --.

With regard to cl. 15, it is unclear whether – an optical transceiver of one of said aggregator modules – in In. 4, is the same as "said at least one aggregator module having an aggregator optical transceiver" in cl. 1, In. 13-15.

With regard to cl. 16, it is unclear whether – one of said aggregator modules – in ln. 4-5, is the same as "at least one aggregator module" in cl. 1, ln. 13.

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With regard to cl. 20, it is unclear whether – the optical transceiver of one of said aggregator modules – in ln. 4-5, is the same as "said at least one aggregator module having an aggregator optical transceiver" in cl. 1, ln. 13-15.

With regard to cl. 21, it is unclear whether – each service – in ln. 4, is meant "each services data", and whether "a service collection unit" in ln. 9, is the same as "at least one service collection unit" in cl. 1, ln. 3.

With regard to cl. 23, it is unclear whether – said step of sorting – in ln. 2, refers to the step of sorting in cl. 1, ln. 12 or in cl. 21, ln. 5.

With regard to cl. 24, it is unclear whether – said step of sorting – in ln. 2, refers to the step of sorting in cl. 1, ln. 12 or in cl. 21, ln. 5.

With regard to cl. 25, it is unclear whether – a service collection unit – in ln. 3, is the same as "at least one service collection unit" in cl. 1, ln. 3.

With regard to cl. 27, it is unclear whether – a plurality of trunk ports in said at least one service collection unit --, is the same as "a plurality of trunk ports in a service collection unit optical transceiver" in cl. 25, ln. 3-4; and whether – the optical transceiver of said service collection unit" in ln. 5-6, is the same as "each said at least one service collection unit including an optical transceiver" in cl. 1, ln. 5-7.

With regard to cl. 29, it is unclear whether -- said service collection unit -- in ln. 5, is the same as "each said at least one service collection unit including an optical transceiver" in cl. 1, ln. 5-7.

With regard to cl. 30, it is unclear why and how the step of "sorting the services data from a plurality of said converted packets in at least one aggregator module" in cl. 1, In. 12-13, includes another step of "sorting the services data from a plurality of

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packets according to service type, and aggregating the sorted data from each different service fro transmission" in cl. 30, In. 2-5. The steps are very similar in cl. 1 and 30.

With regard to cl. 32, it is unclear whether – a service collection unit – in ln. 11-12, is the same as "at least one service collection unit" in cl. 1, ln. 3.

7. There is insufficient antecedent basis for this limitation in the claim.

Claim 2 recites the limitation "said aggregated services data" in ln.3 and ln.5, and "the sorted services data" in ln. 7. Only sorted services data are aggregated.

Claim 21 recites the limitation "each service" in In. 4.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mo et al. (U.S. Pat No. 6,693,909).

With regard to cl. 1, Stephens discloses

collecting (receiver 120, col. 8, ln. 25-27), in at least one service collection unit (combination of receiver 120, demultiplexer 122 and transmitter 126), services data in their original protocols from a plurality of different types of services (traffic is distinguished, segregated, and processed based on a two level, low/high priority scheme ... segmented into any number of suitable traffic types based on CoS, QoS and other traffic type identifiers, col. 8, ln. 12-24) to be

transmitted, each said at least one service collection unit including an optical transceiver (the transmitter 126 includes an optical to electrical interface OEI 164 for converting an egress traffic stream to optical signals for transmission over the high-speed optical links 32, col. 8, ln. 29-31);

processing (demultiplexer 122, col. 8, ln. 27-29) the services data in their original protocols into packets (two packet or other suitable sized buffer, col. 8, ln. 32);

converting the packets into optical signals on an optical fiber for transmission; and

sorting (traffic buffer 150 for high priority traffic and local buffer 152 for low priority traffic) the services data from a plurality of said converted packets in at least one aggregator module (traffic buffer 150, local buffer 152 and multiplexer 124, col. 8, ln. 20) having an aggregator optical transceiver, coupled for optical communication to the at least one service collection unit.

However, Mo fails to explicitly show a metro network and an aggregator optical transceiver.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include a metro network and an aggregator optical transceiver within transport network 10 of Fig. 1. The suggestion/motivation for doing so would have been to enlarge current optical network. Therefore, it would have been obvious to combine a metro network and an aggregator optical

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transceiver with Mo for the benefit of a bigger transport network, to obtain the invention as specified in cl. 1.

Allowable Subject Matter

10. Claims 5-9,11,12,14,22,31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Double Patenting

11. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

12. Claim 1 provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of copending Application No. 09/753513. Although the conflicting claims are not identical, they are not patentably distinct from each other.

09/753513 discloses a system for data transmission over an optical network with "at least one service collection unit including a collection module for collecting ... a

processing module for processing ... into packets; and a packet transmission module for converting the packets into optical signals ...; and an aggregator ... including: a sorting module for sorting ...".

The current application shows similarly.

09/735399 discloses a method for data transmission over an optical network that performs the functions of a service collection unit and an aggregator, namely "collecting, in at least one service collection unit, ... processing ... into packets, converting packets into optical signals ... sorting ... in at least one aggregator module, ... ".

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to observe the similarities between 09/753513 and 09/753399. The suggestion/motivation for doing so would have been to provide for a method inherent within a system. Therefore, it would have been obvious to have a method claim for the benefit of a system.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blanche Wong whose telephone number is 571-272-3177. The examiner can normally be reached on Monday through Friday, 830am to 530pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RW

BW

October 27, 2005

CHI PHAM

PERVISORY PATENT EXAM